

# Patent [19]

[11] Patent Number: 62232404  
[45] Date of Patent: Oct. 12, 1987

---

## [54] POLYMERIZATION OF ETHYLENE OF ALPHA-OLEFIN

[21] Appl. No.: 61072463 JP61072463 JP

[22] Filed: Apr. 01, 1986

[51] Int. Cl.<sup>4</sup> C08F01000 ; C08F00464

### [57] ABSTRACT

PURPOSE: To obtain a polymer of high quality, by deactivating the remaining catalyst when switching a catalyst system in polymerizing ethylene or an  $\alpha$ -olefin by alternately using specified two catalyst systems of different properties in the same plant.

CONSTITUTION: Two catalyst systems, i.e., a nonsupported catalyst system (A) based on titanium trichloride (-containing composition) and an organoaluminum compound and a supported catalyst system (B) based on an organoaluminum compound and a supported catalyst formed by allowing a magnesium compound to support a transition metal component are prepared. Ethylene or an  $\alpha$ -olefin is (co)polymerized by alternately using the catalyst systems A and B in the same plant. When switching from catalyst A to catalyst B or from catalyst B to catalyst A in the above polymerization, the polymerization process and its main upstream lines are treated with a catalyst deactivator (e.g., ethanol or diethylene glycol monopropyl ether) to deactivate the remaining catalyst.

COPYRIGHT: (C)1987,JPO&api

\* \* \* \* \*